

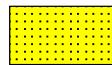
LOG created using LPLOT VH Version 3.0, April 02, 2010, Copyright (C) 1999-2009 Pason Systems Corp.

OPERATOR: BRIDGE ENERGY LLC.
WELL: ESPINO # 1-2
LOCATION: NE SE, SEC. 2, T7N, R4W
COUNTY: PAYETTE
STATE: IDAHO
SPOT: 1248' FEL, 1603' FSL, SECTION 2
ELEVATION: GL- 2223', KB- 2235'
FIELD: PLYMOUTH PROSPECT
SPUD DATE: MARCH 27,2010
TD DATE: APRIL 2, 2010
DATES LOGGED: MARCH 27, 2010 TO APRIL 2, 2010
DEPTHS LOGGED: 140' TO 4500'
LOGGERS: HAL SCHMIDT, MAX MODERN
DRILLING FLUID: LSND
DRILLING RIG: ENSIGN #516
API:
LOG TYPE: MUDLOG
SCALE: 1:240 (5 inches per 100 feet)
REMARKS:

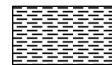
LITHOLOGIES



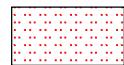
No Sample



Sandstone



Shale



Siltstone



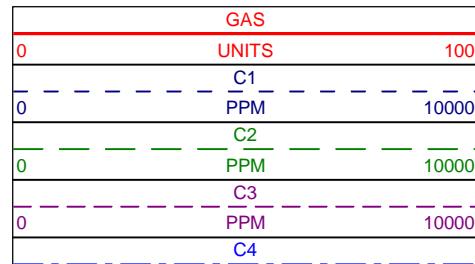
Tuff

MODIFIERS

| | | | | | | | |
|---|---------------------|---|---------------------|----|----------|---|-------------|
| ⊥ | Calcareous | ■ | Carbonaceous Flakes | ✗ | Crystals | + | Feldspar |
| ✖ | Fractures | ◡ | Micaceous | P | Pyrite | ○ | Sand Grains |
| ▣ | Sandstone Stringers | — | Shale Laminae | .. | Silty | ▽ | Tuffaceous |

ENGINEERING SYMBOLS

| | | | | | | | |
|---|----------------|---|----------------|---|----------|---|------------|
| ⓐ | Bit Change | ◀ | Casing | ▶ | Casing | □ | Connection |
| ◎ | Connection Gas | ☒ | Midnight Depth | ◎ | Trip Gas | | |



ROP

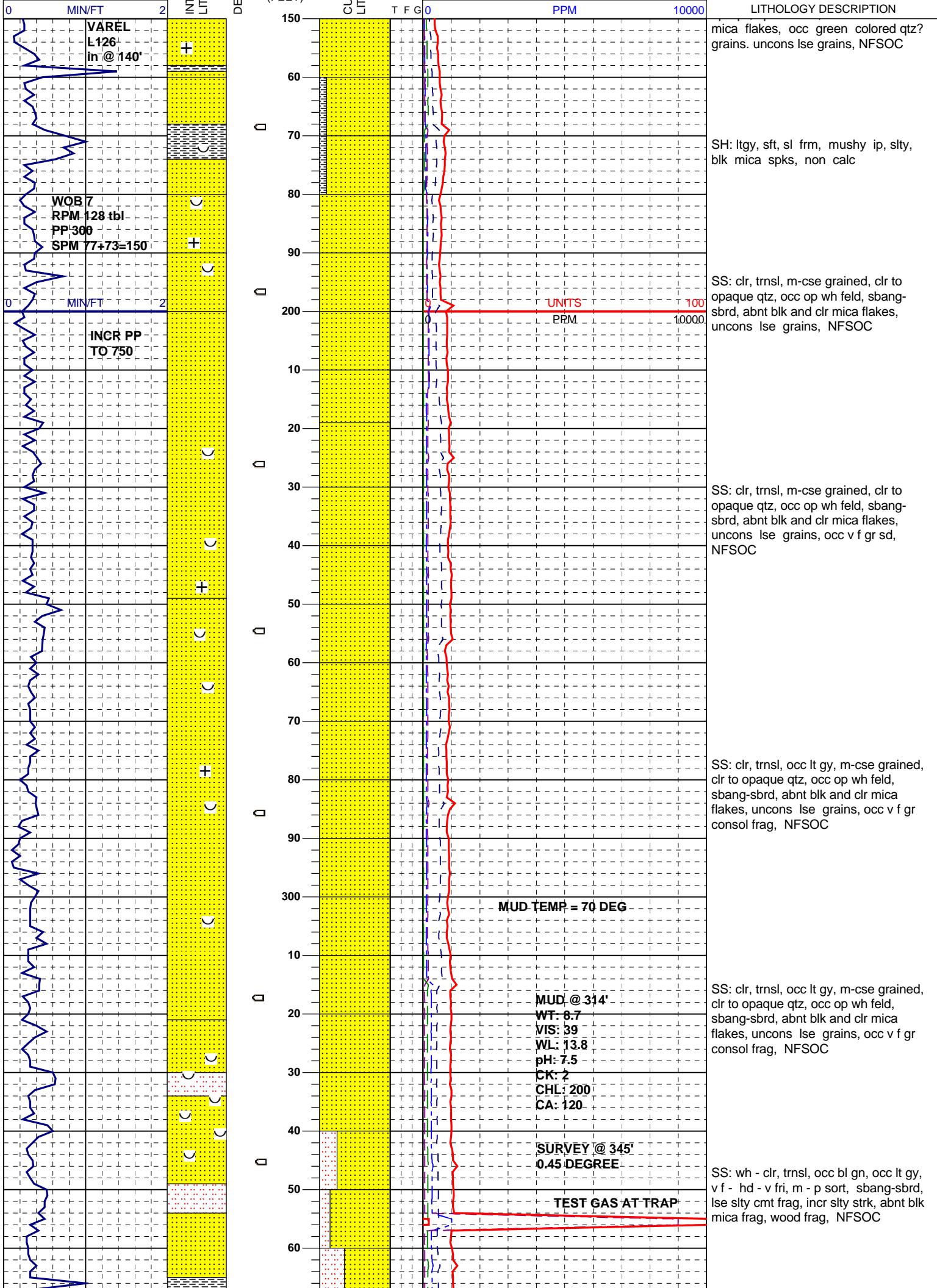
 INTERPRETIVE
LITHOLOGY

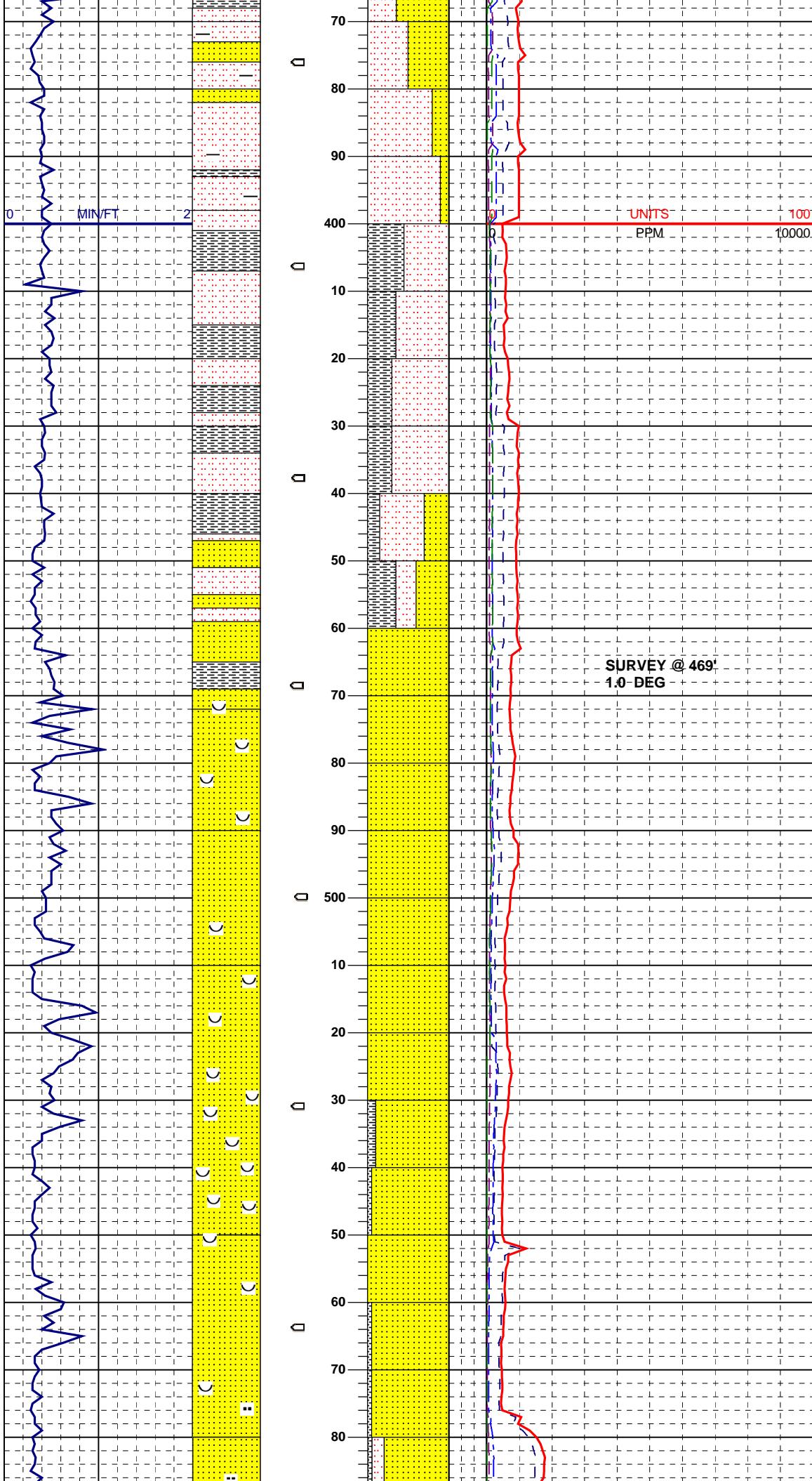
 DEPTH
(FEET)

 DEPTH
(FEET)

 SETTINGS
LITHOLOGY

OIL SHOW





SLTST: wh - off wh- lt-mgy, tan, blky
- ang, incr shy strk ,clr mica spks, sl
grdg - slty sh, scat c qtz grains

SH: It gy - m gy - tn - crm, sbsft -
sbhd, v slty, grdg - slty sh, abnt cl res,
incr hd

SLTST: wh - off wh- lt-mgy, tan, blky
- ang, incr shy strk ,clr mica spks, occ
grdg - slty sh, sl cl

SS: wh - clr, trnsl, occ bl gn, pred lse
cse qtz gr, sbang-sbnd, lse slty cmt
frag, cln sd NFSOC

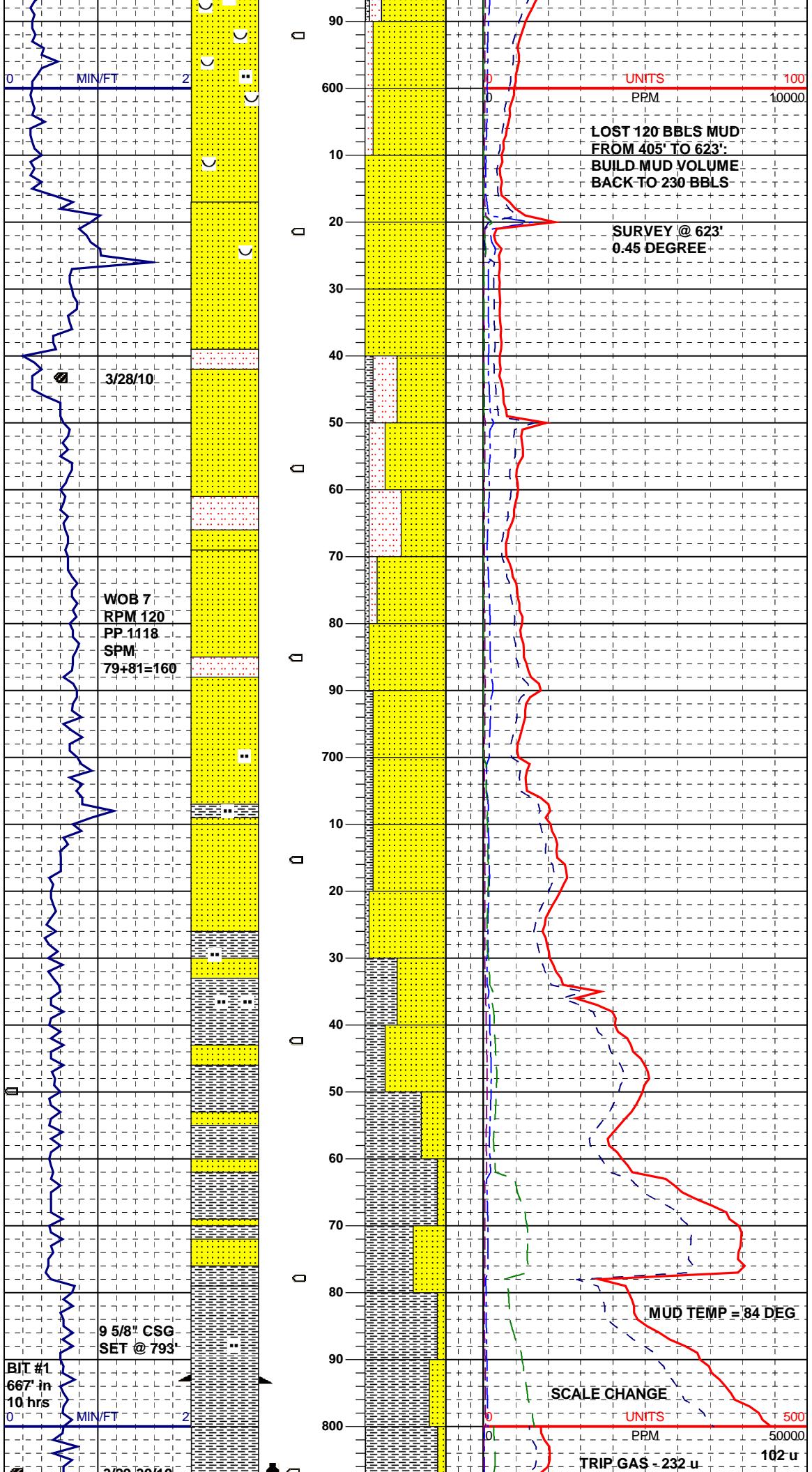
SS: wh - clr, trnsl, occ bl gn, pred lse
cse qtz gr, sbang-sbrd, lse slyt cmt
frag, cln sd, tr sh frag, slyt incl w/ blk
poss carb spec, NFSOC

SS: wh - clr, trnsl, occ bl gn, pred lse
cse qtz gr, fld frag, sbang-sbrd, cln
sd, tr sh frag, 10% blk mica flk,
NESOC

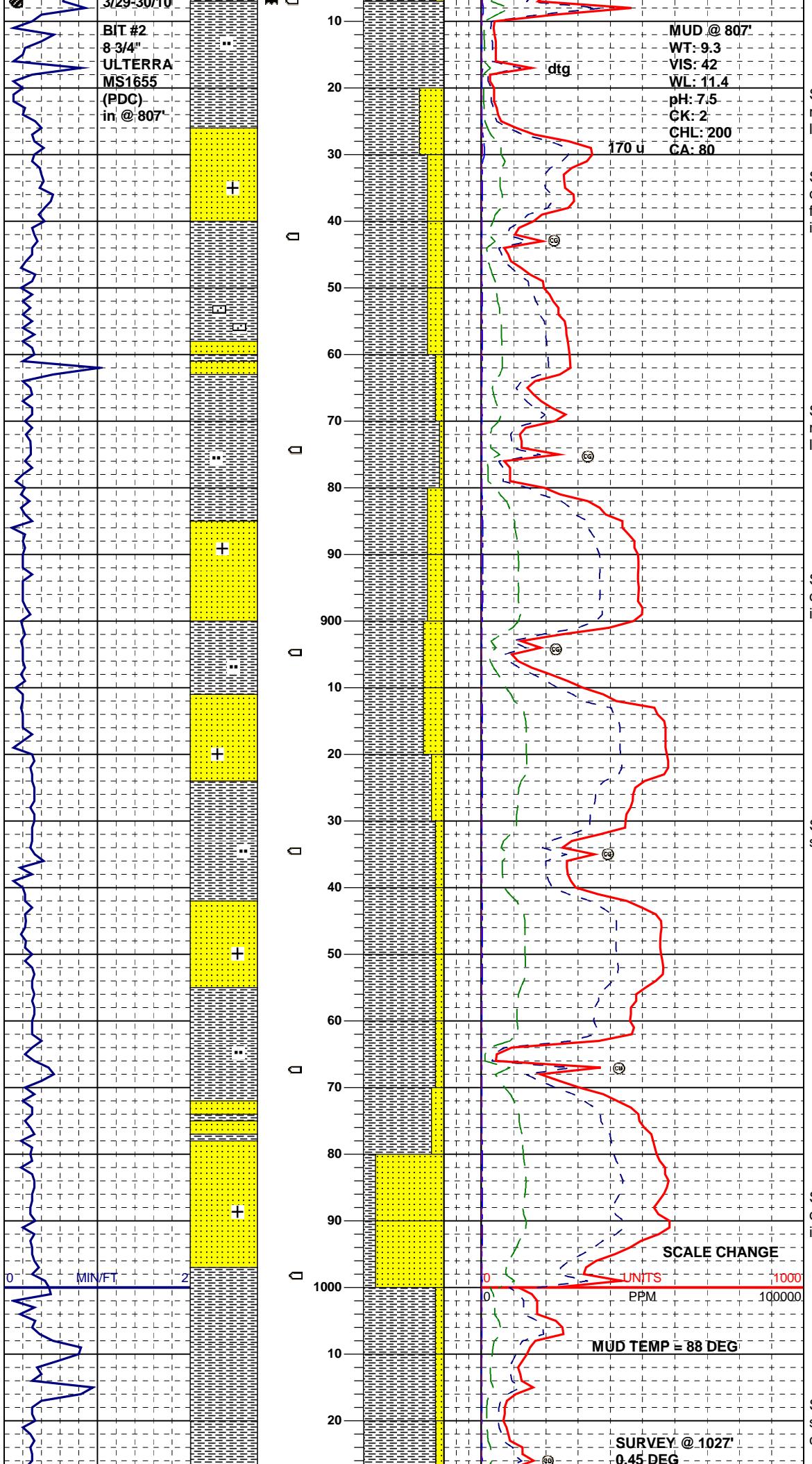
SS: wh - clr, trnsl, occ bl gn spec,
pred lse cse qtz gr, abnt op - wh fld
frag, sbang-sbrd, tr sh frag, 15% blk
mica flk, slty res. NESOC

SS: wh - clr - lt gy, trnsl, pred lse cse
gr, vf - abnt op - wh fld frag, sbang-
sbrd, tr sh frag, incr slty occ shy w/

embed c sd gr, NFSOC



At surface casing depth 807'. Circ hole, slowly gain 130 bbls in 60 min, Gas incr 180 units over background of 50 units, 98% C1 & C2, circ out 8" wtr flow, incr mud wt to 9.3, cse SS, abnt. wood fragments blk-brn, organic, altered to carb. in part, & scat pieces of gy sh,



coming over shaker
CALIBRATE GAS DETECTOR
3/29/10
FIT test 10.5 lb/g @ 817'
H: Itgy, mgy, sbblkly, frm, sl sft, silty,
micro carb spks common, sm scat,
e, qtz grains in spl,

SS: clr, wh, m to cse grained, clr & pp, qtz & feld, sbang-sbnd, cleavage faces on much of feld grains, drls up into loose grains, NFSOC

Abnt feldspar in sands

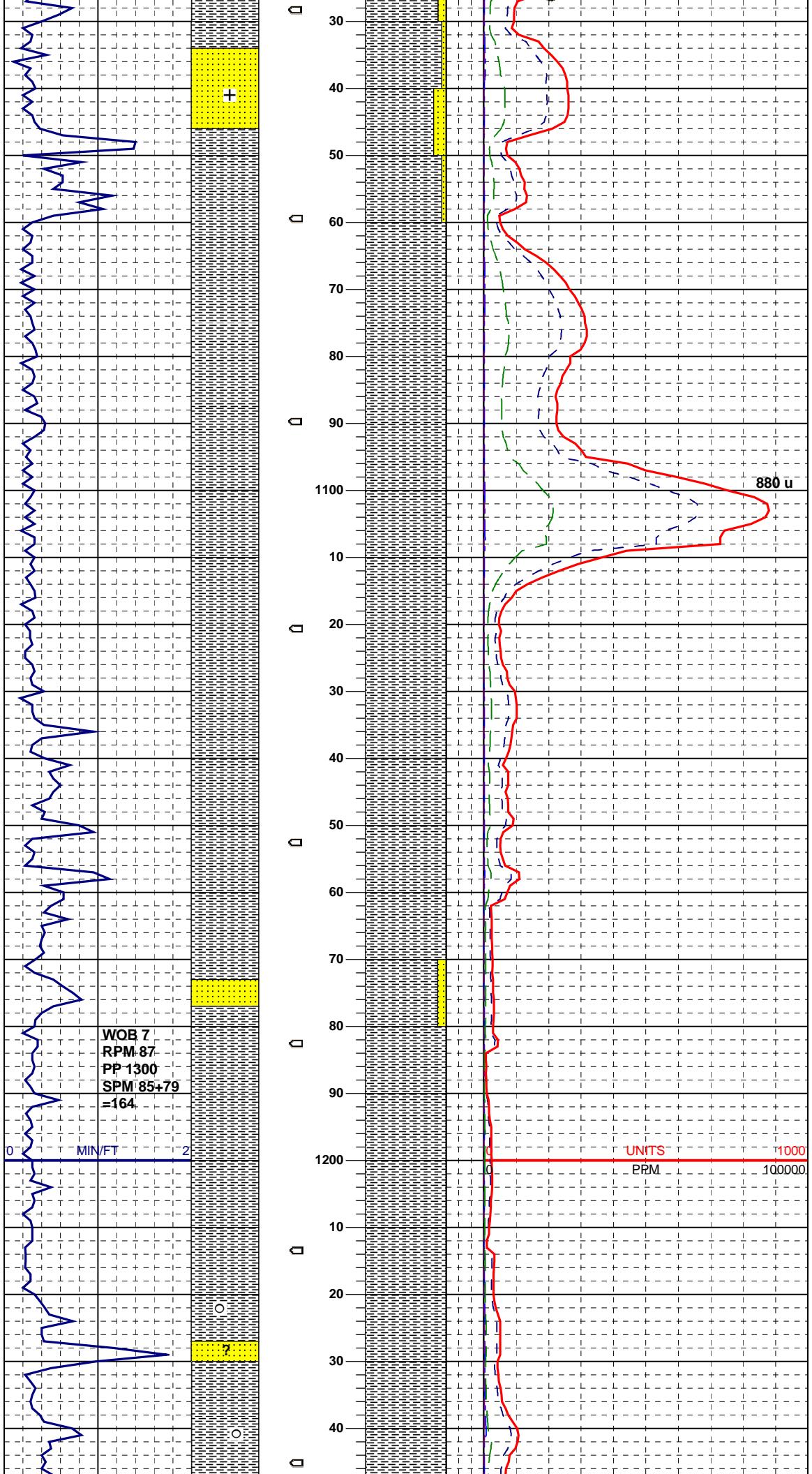
SH: Itgy, mgy, sbblky, frm, sl sft, slty,
micro carb spks common, sm scat,
se, qtz grains in spl,

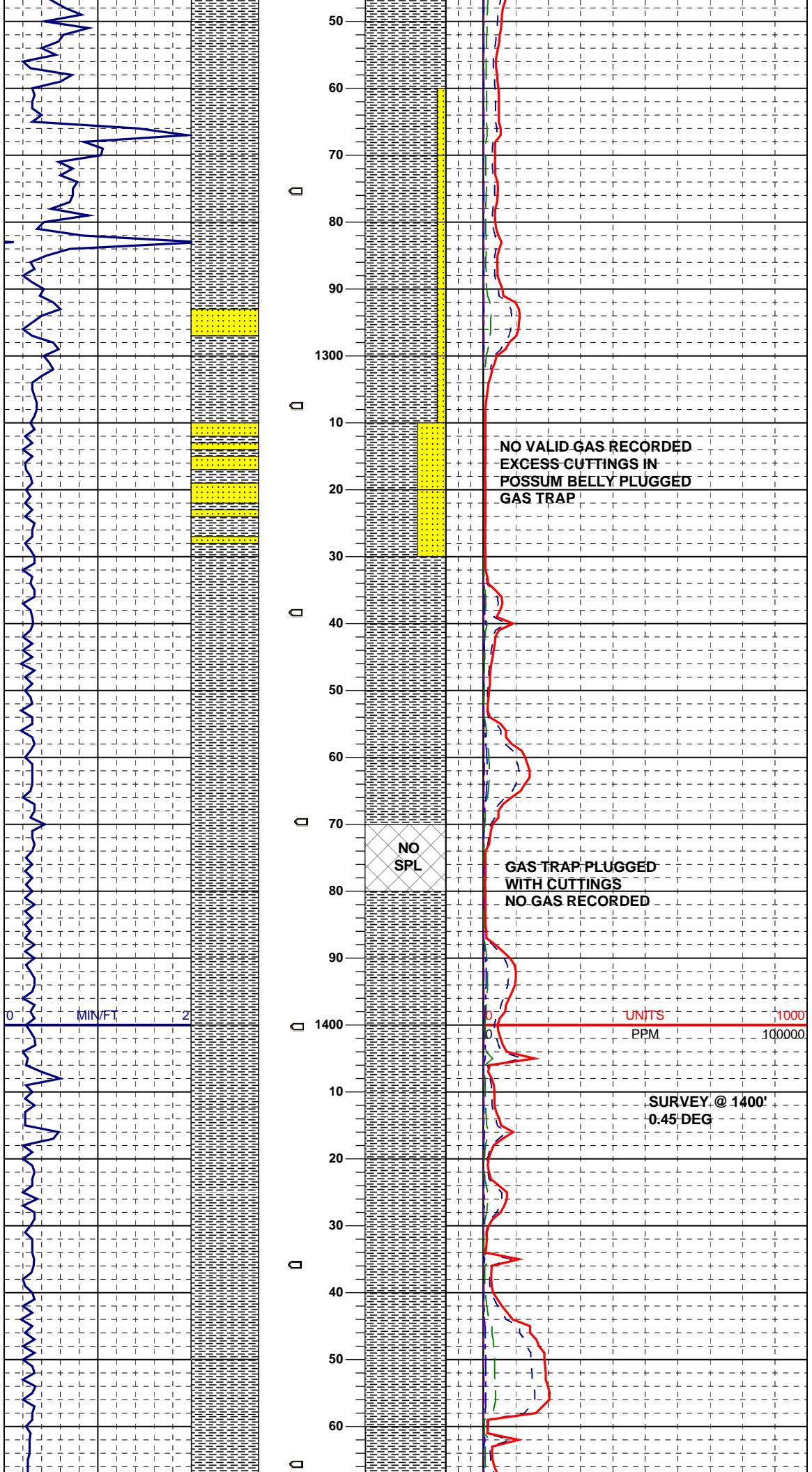
SS: clr, wh, m to cse grained, clr & op, qtz & feld, sbang-sbrd, drls up into loose grains, NFSOC

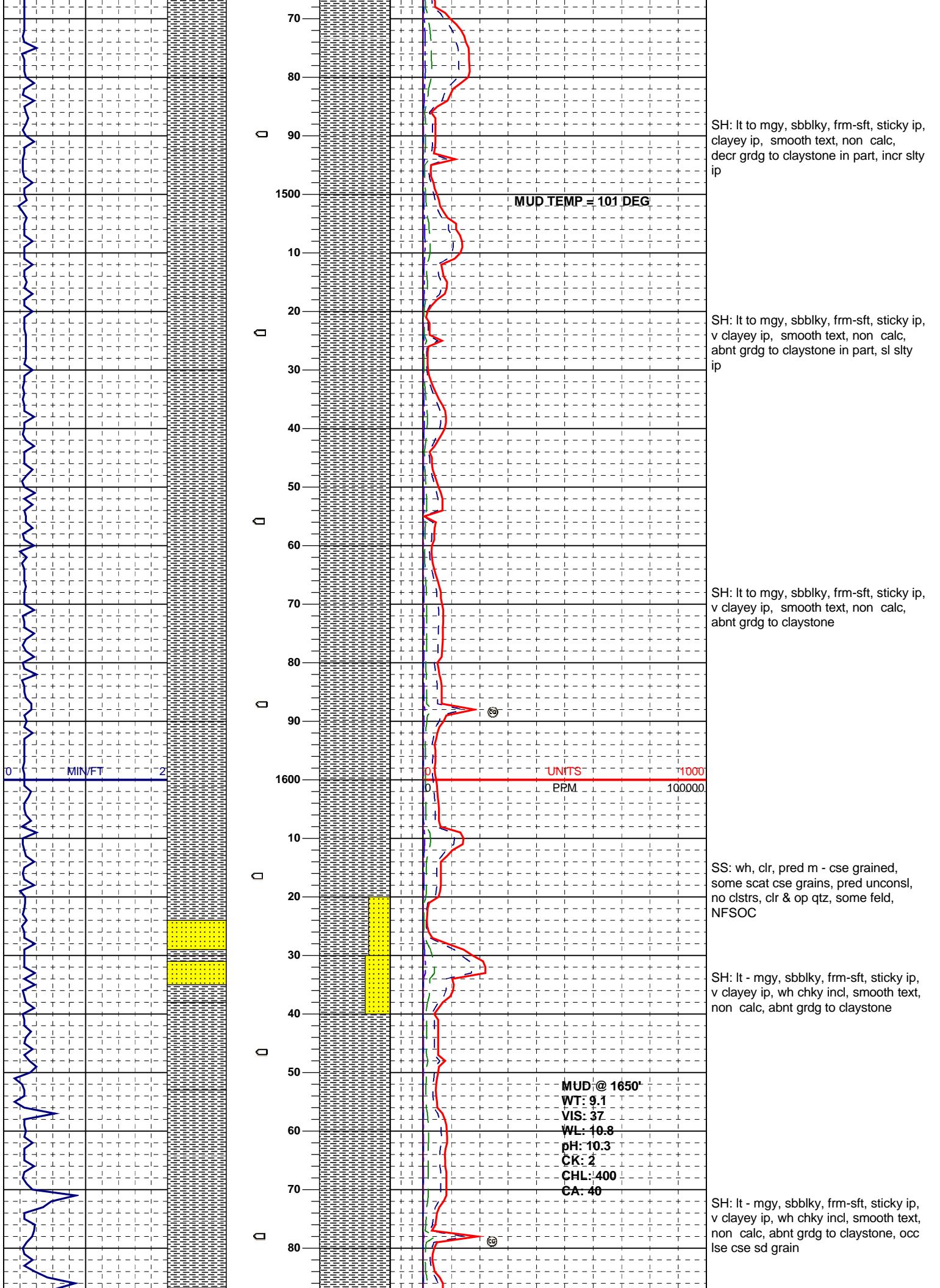
SH: It to med gy, sbblk, frm-sl sft,
slty, occ micro carb specks

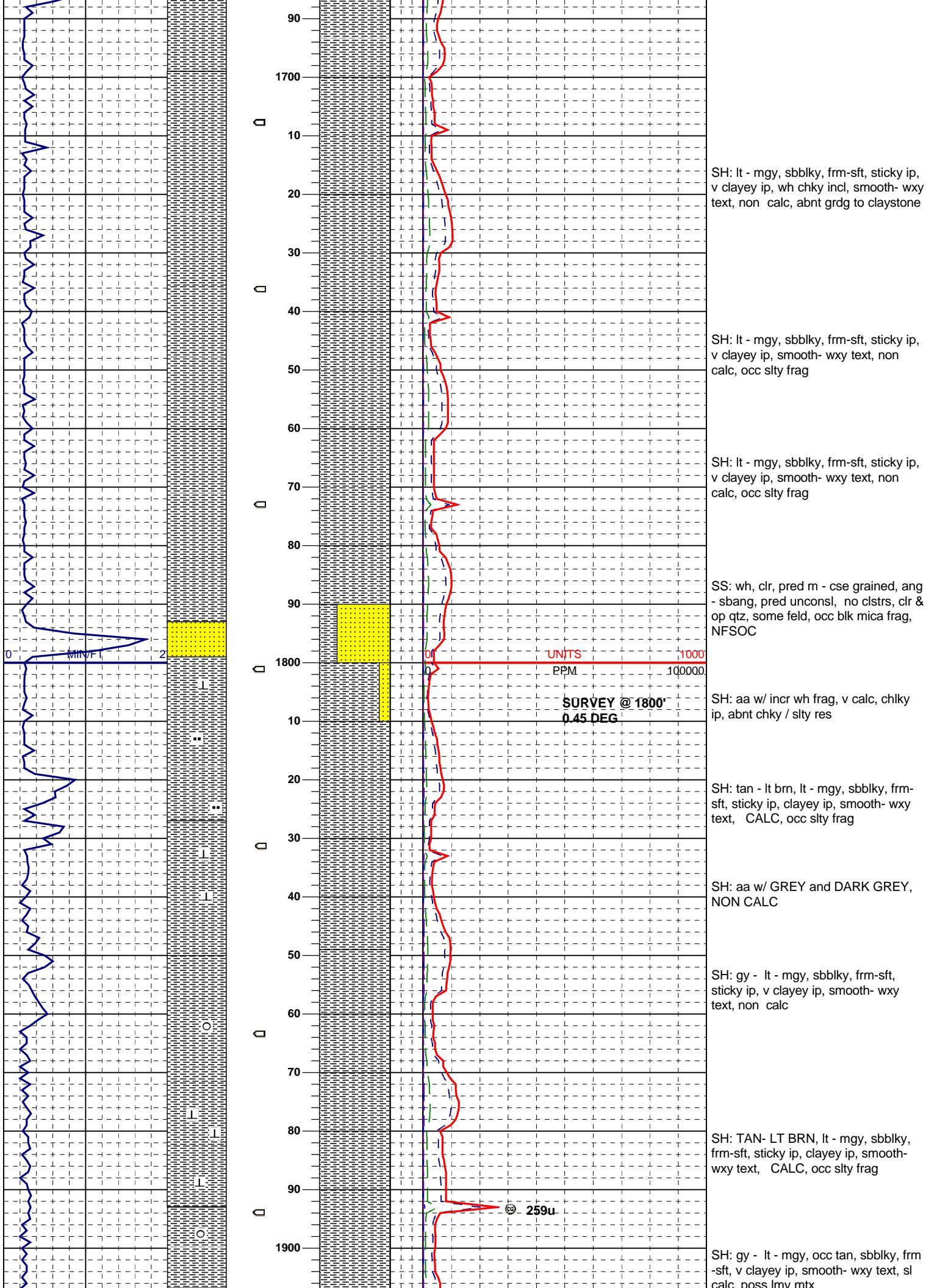
SS: clr, wh, m to cse grained, clr & op, qtz & feld, sbang-sbrd, drls up into loose grains, NFSOC

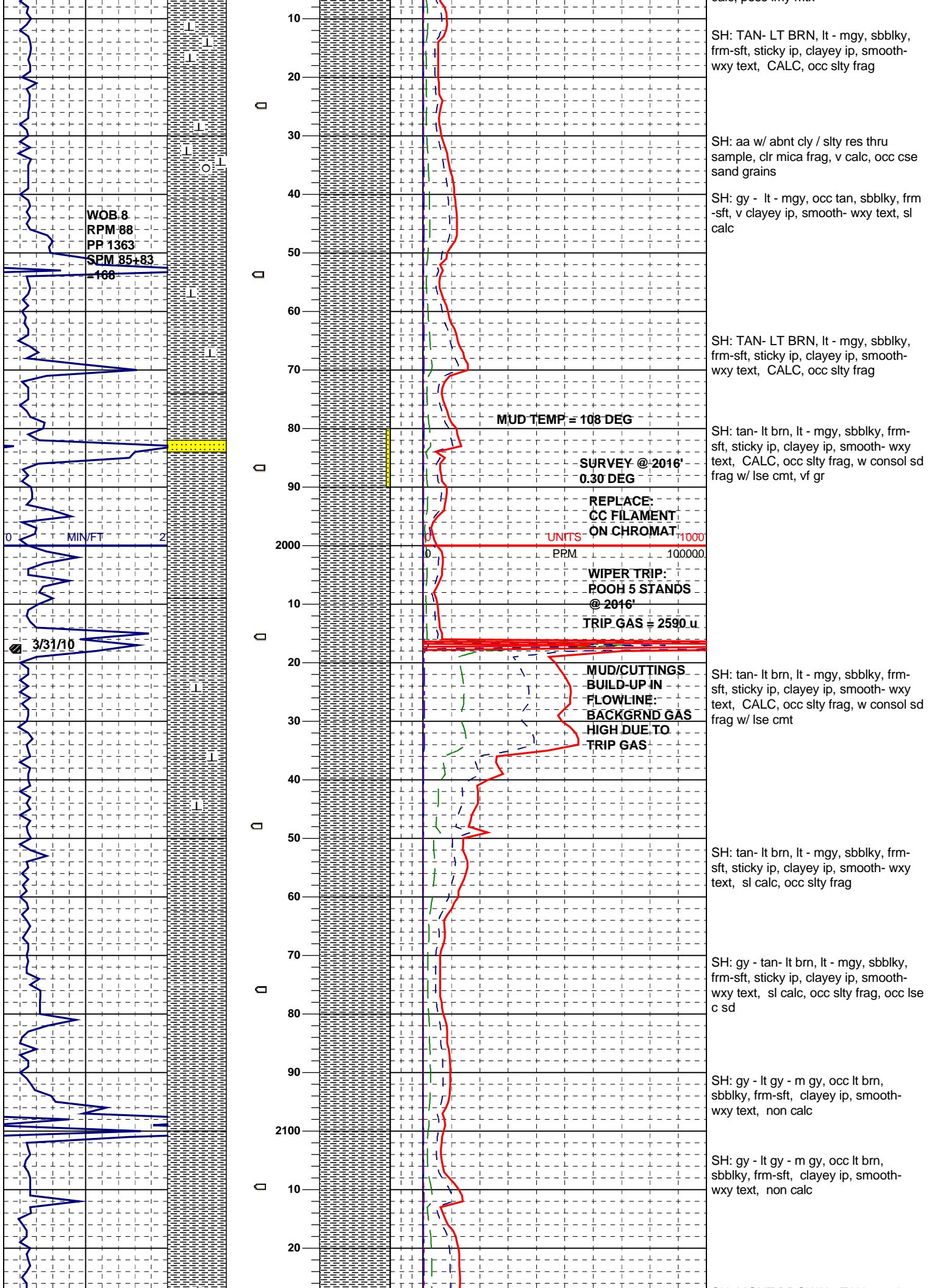
SH: It to mgy, sbblk, frm-sft, occ
sticky, clayey, non silty when
compared to shales above.

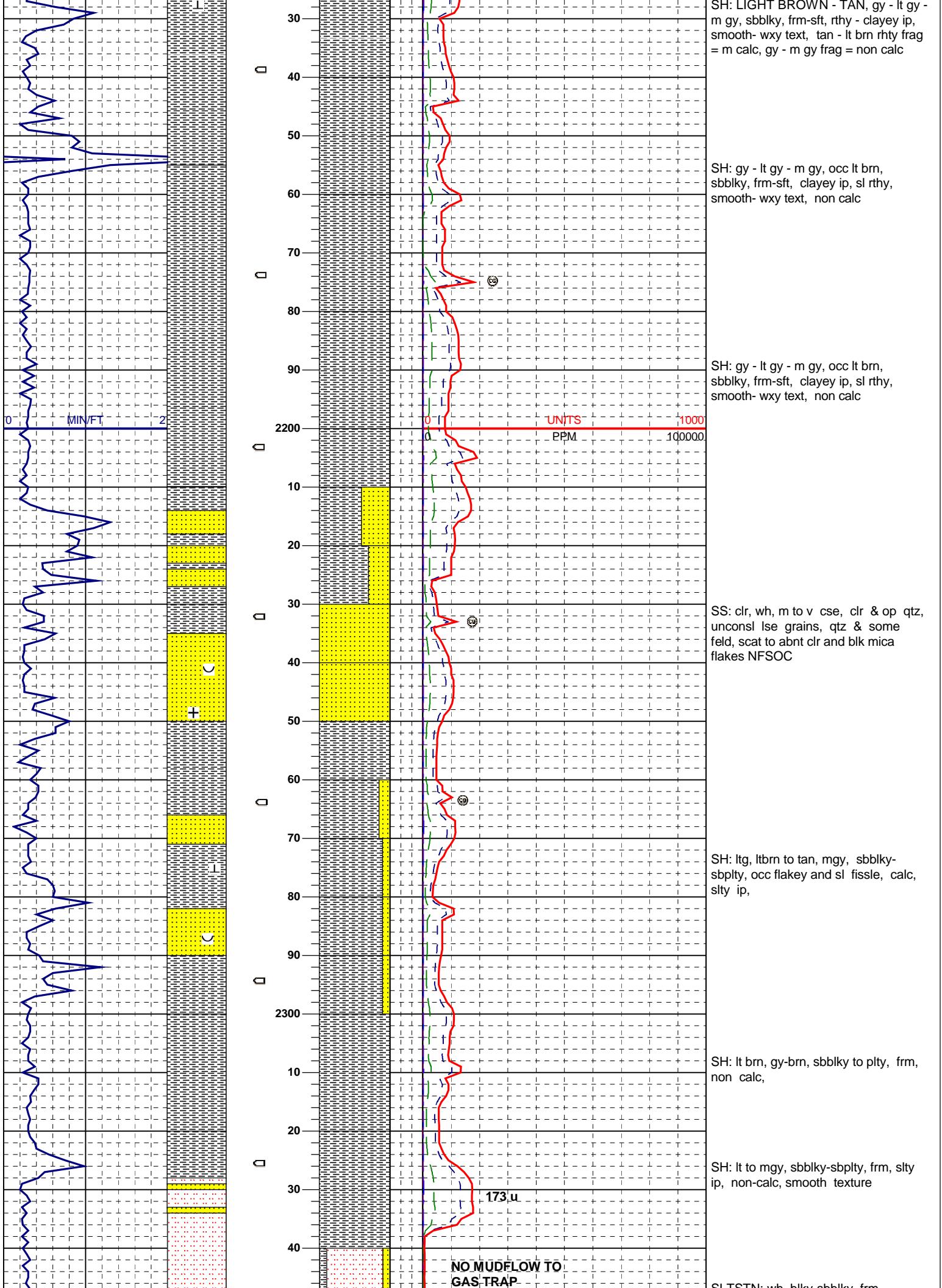


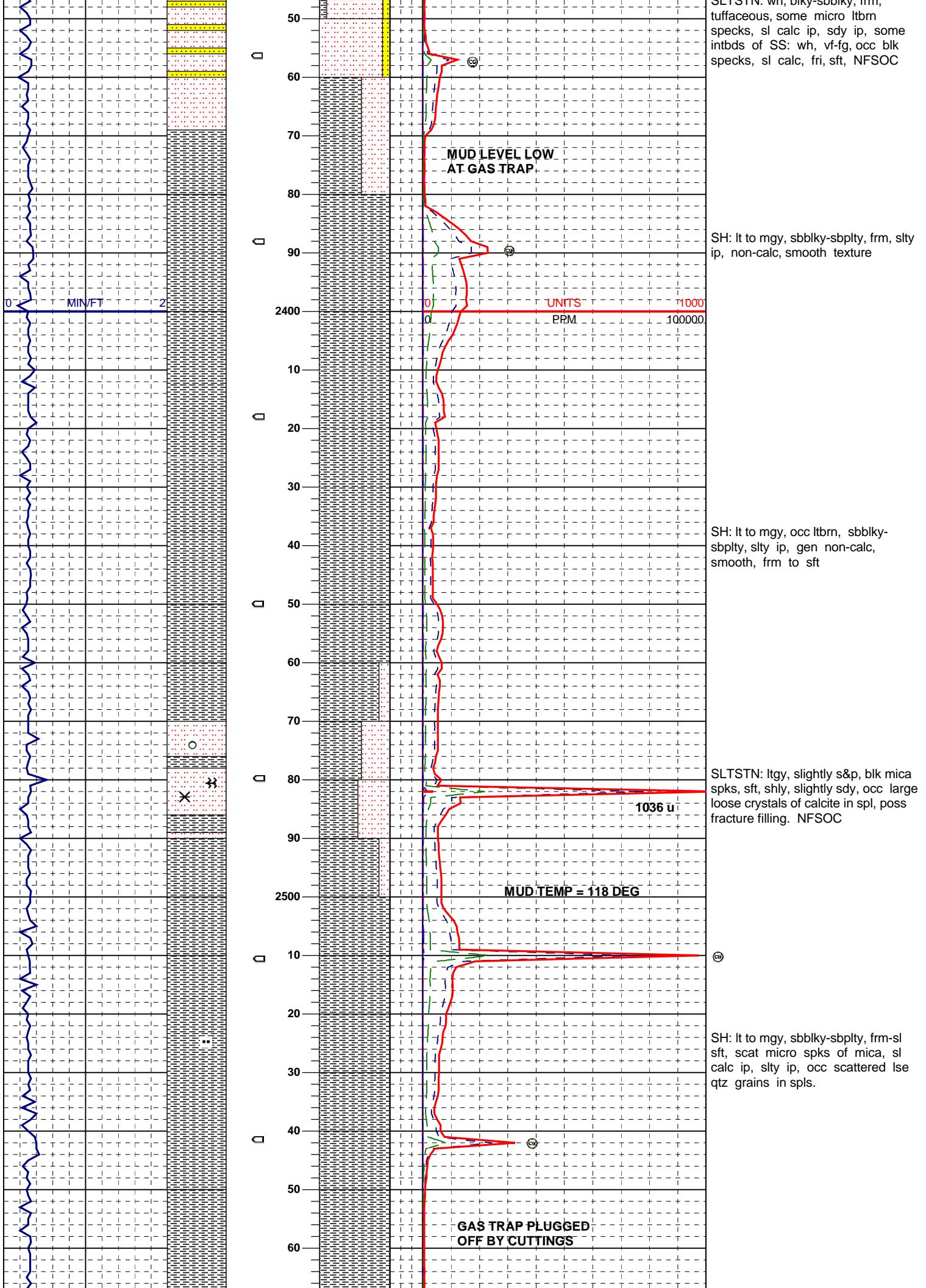


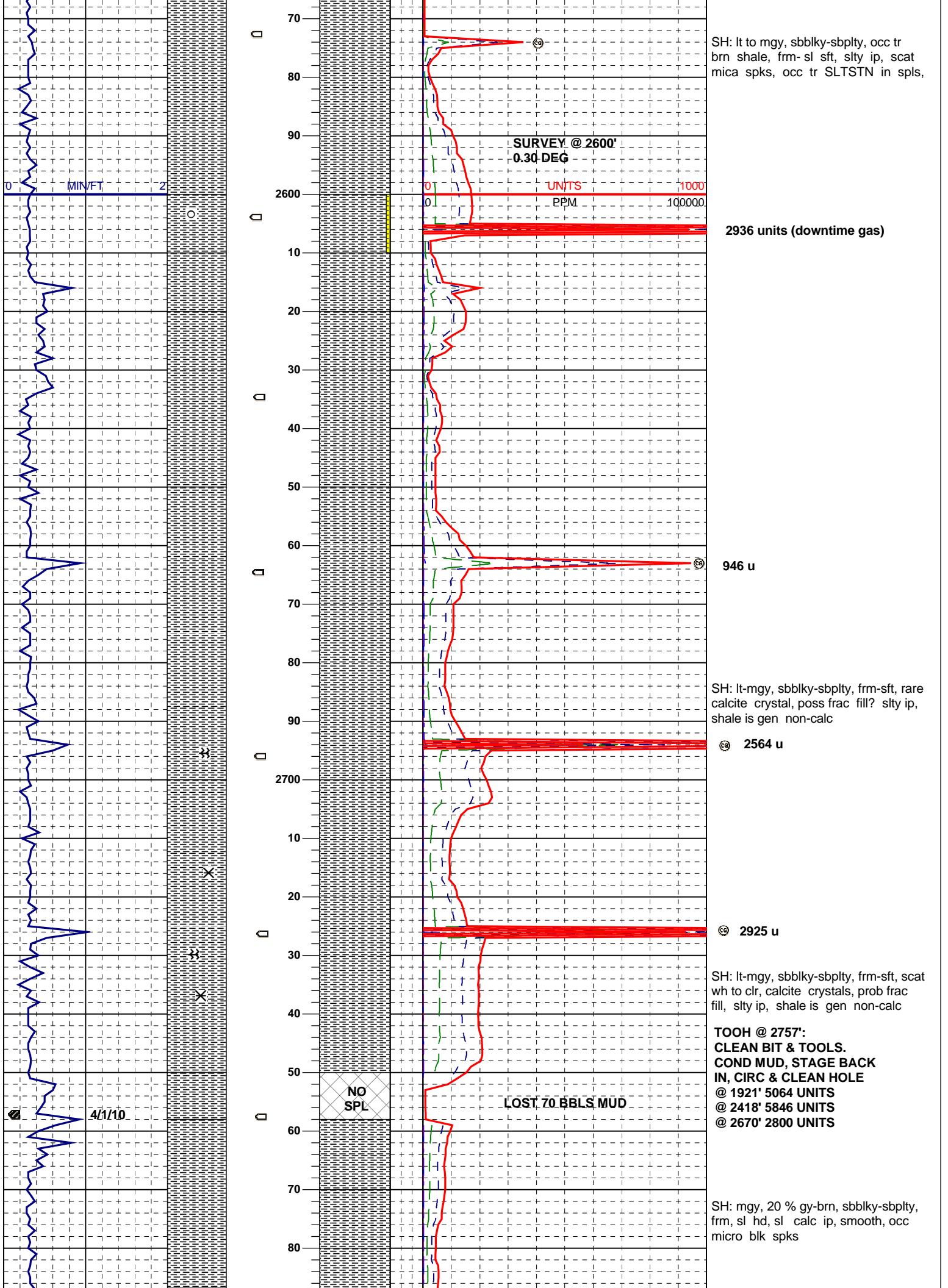


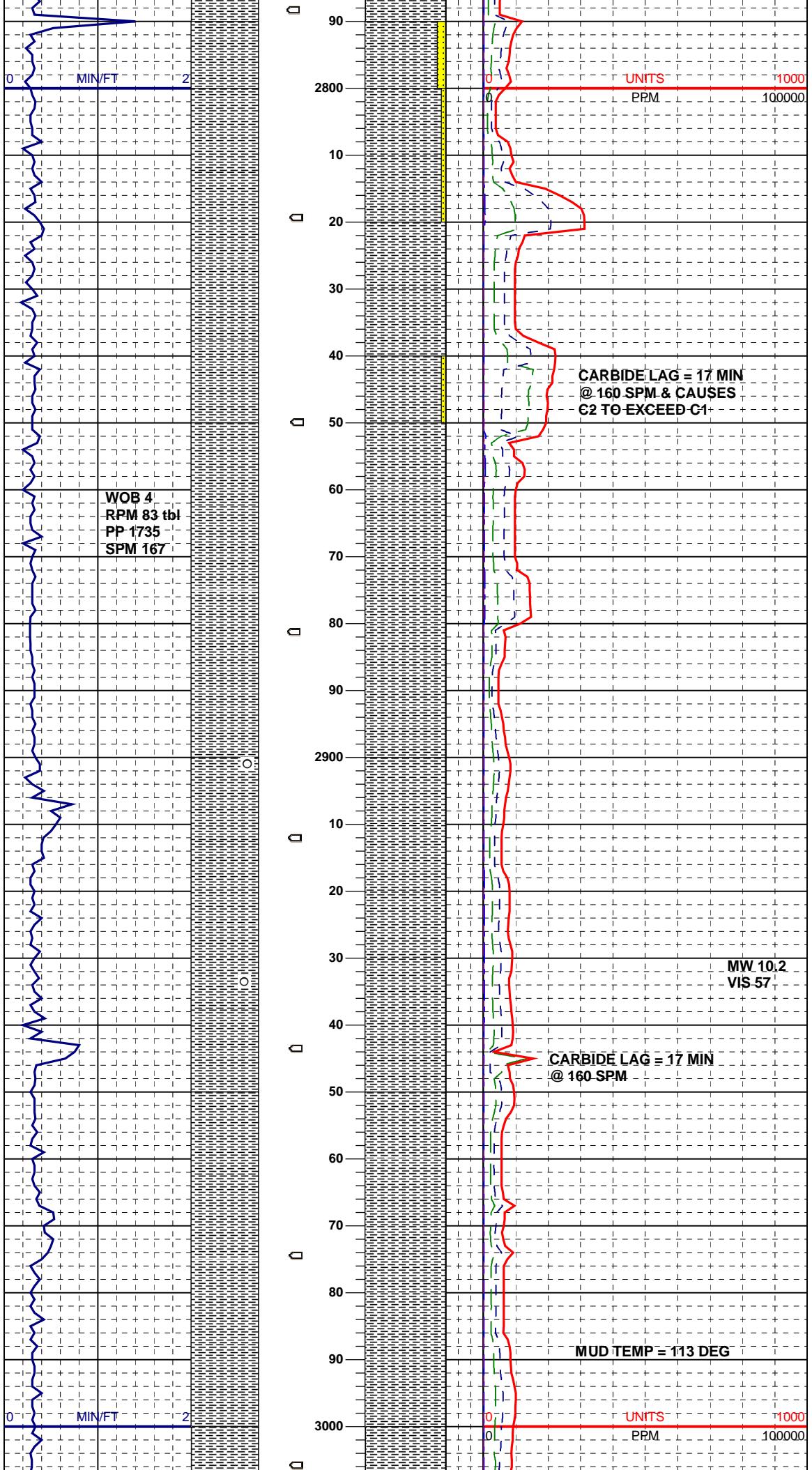












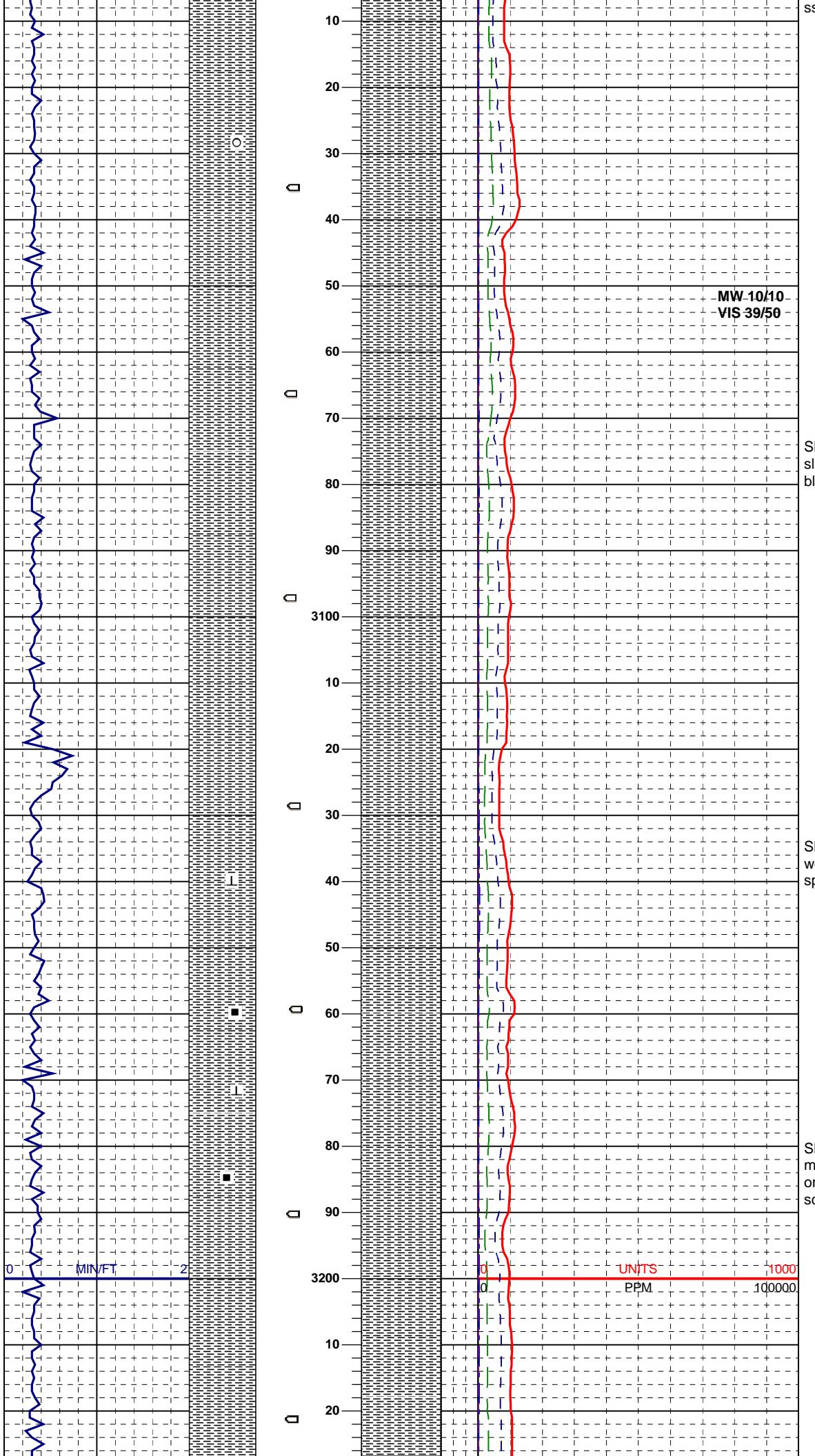
SS: clr, wh, sl s&p, vf-mg, occ v cse
 grains, a few wk calc cmtd clstrs,
 w/ blk mica spks, otherwise unconsl
 lsse grains, sbang-sbnd, NFSOC

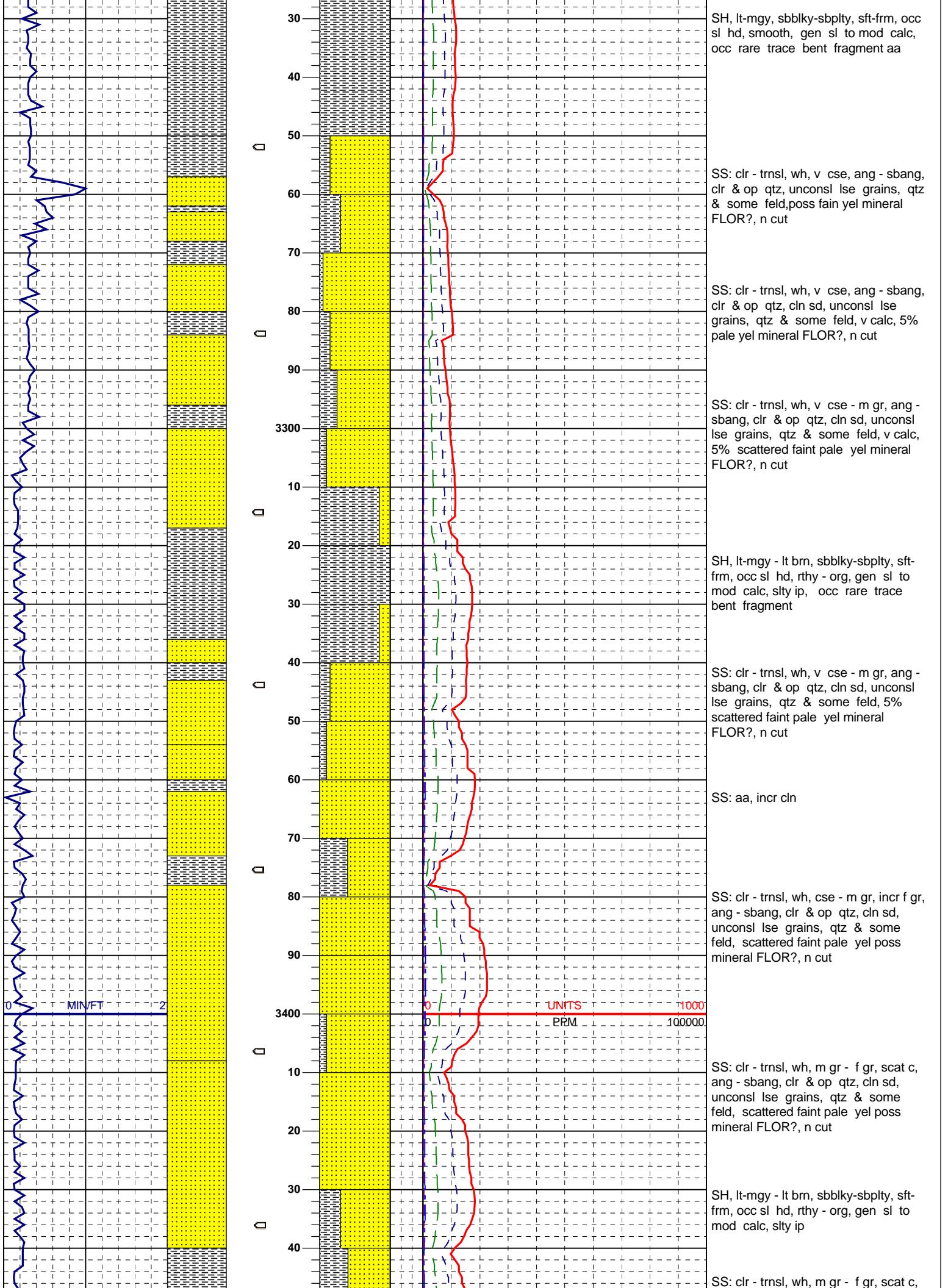
SH: mgy, gy-brn, sbblk-sbplty, frm,
 sl hd, sl calc ip, smooth, occ micro
 blk spks, scat pieces wh-crm,
 bentonite in spls

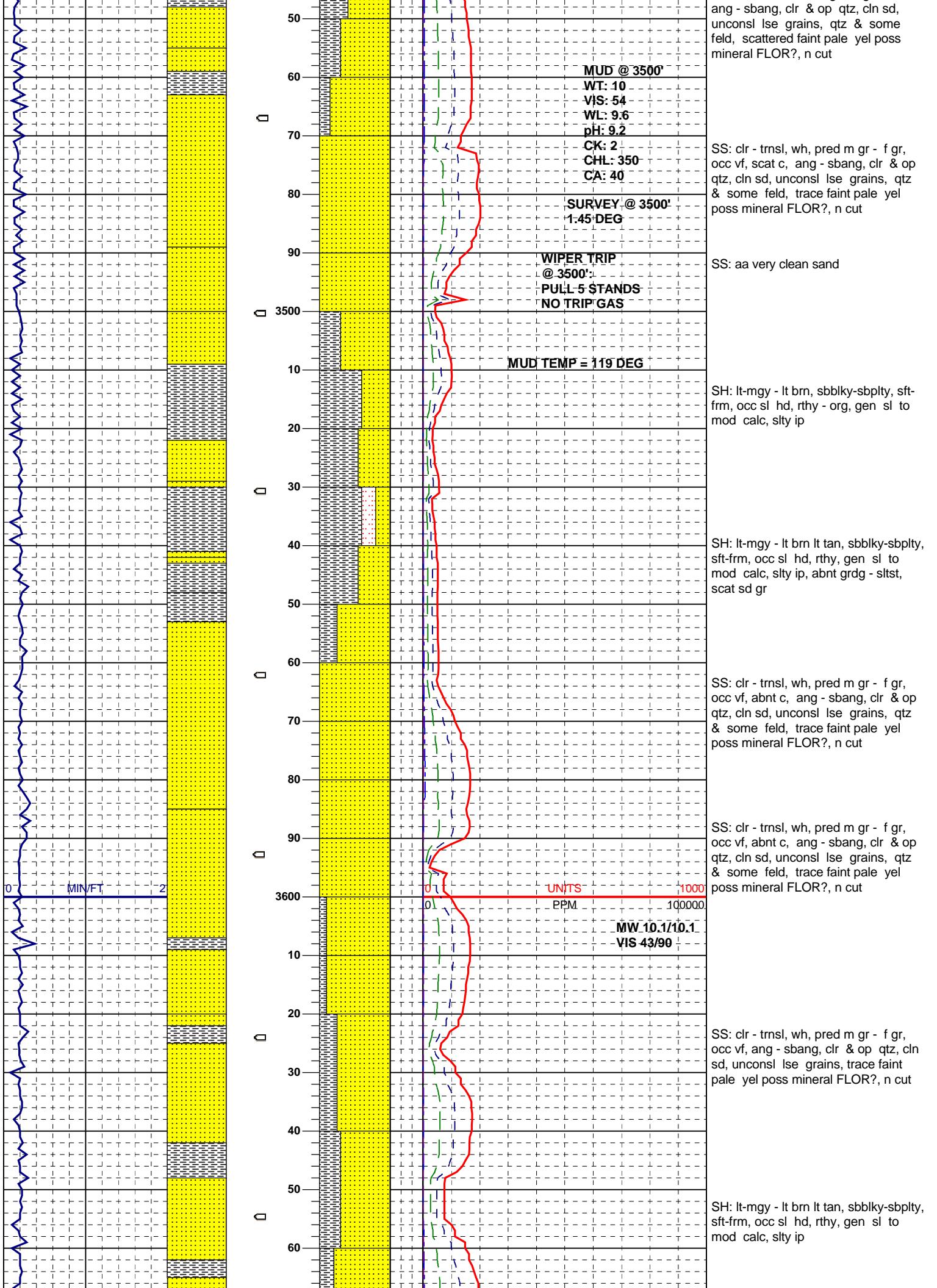
SH: mgy, gy-brn, sbblk-sbplty, frm,
 sl hd, sl calc ip, smooth, occ micro
 blk spks, scat pieces tan-crm,
 shale, calc, mod, occ tr of vfg, s&p,
 ss, calc, sft, with blk mica flakes

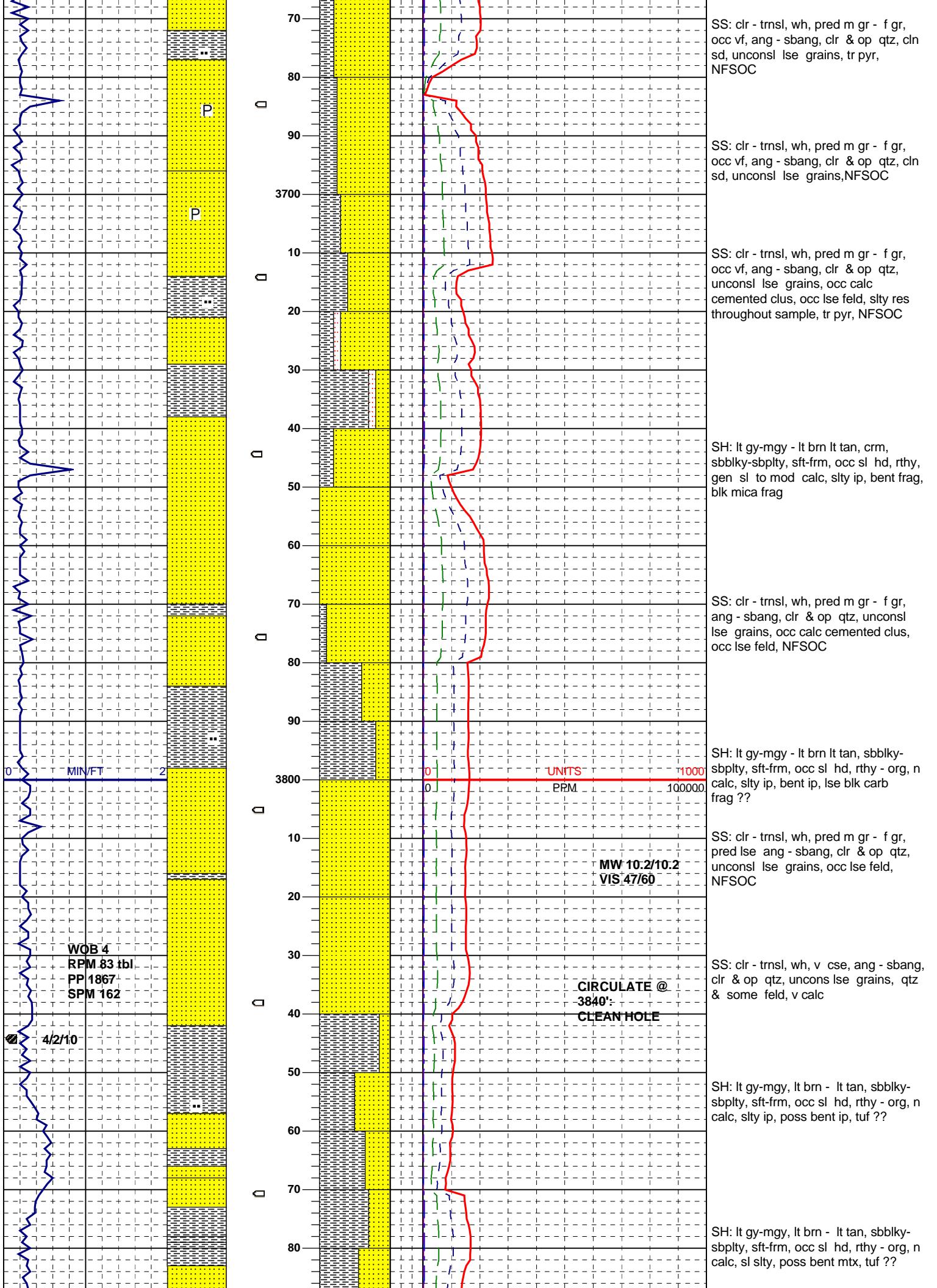
SH: mgy, tr lt-brn, sbblk-sbplty, frm,
 sl hd, sl calc ip, smooth, occ micro
 blk spks, scat pieces tan-crm, calc,
 shale, mod hd, rare, ltgy, vfg, s&p,

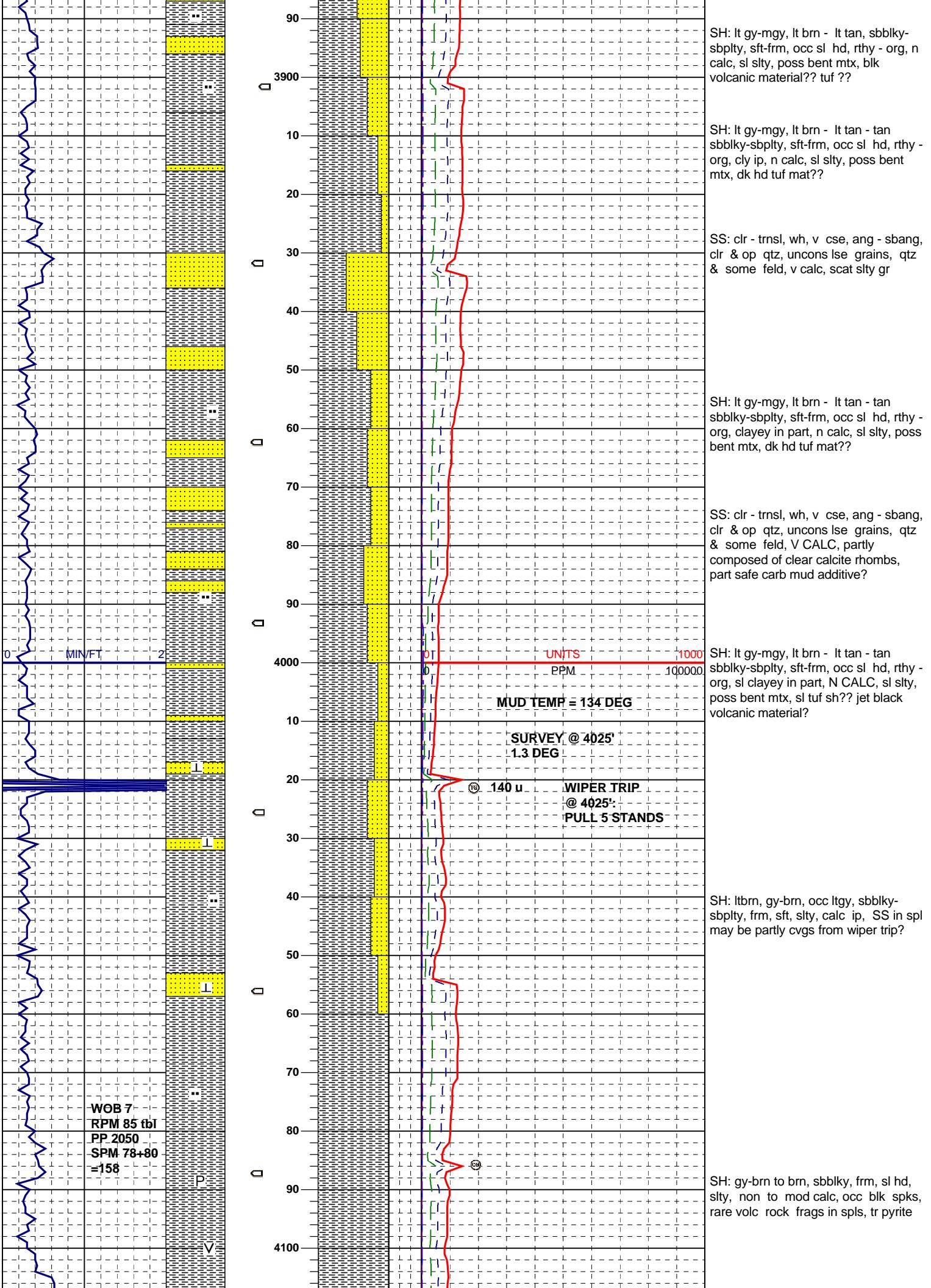
ss, calc, sft, with blk mica flakes

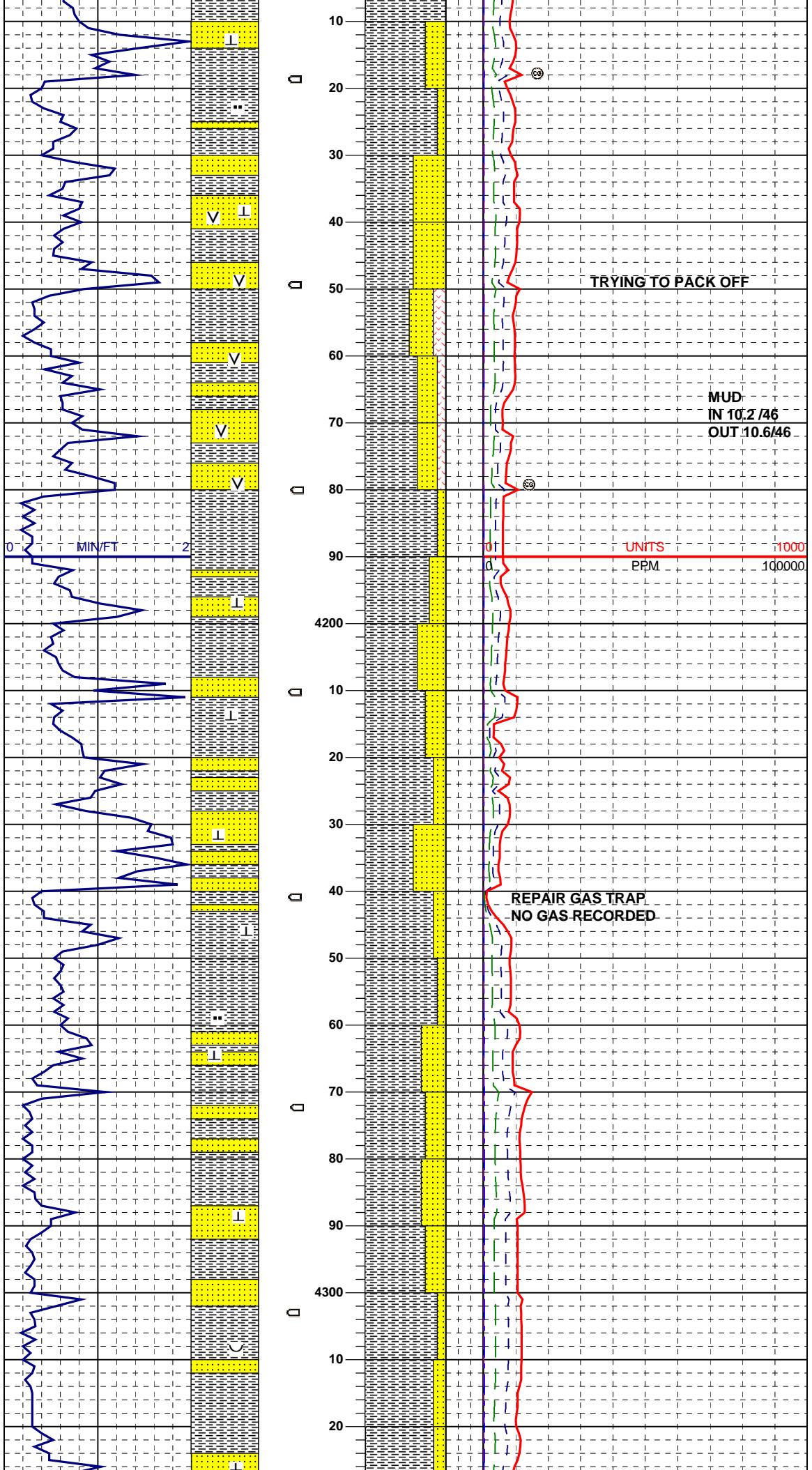












SS: wh, clr, f-mg, occ cse grained, very calc, drls up into loose grains and calcite crystals, prob tite and well cemented. NFSOC

SS: clr, wh, trns, f-cse grained, unconsl loose crystals and grains, very calc cmt, drls up as clr calcite rhombs, sbang to sbrd qtz, scat frags of wh, siliceous tuff, some colored blk and white w/ m xln.

VOLCANICS: tuff, wh, siliceous ip, calc ip, hd to frm, sm mica incl, may be fragments incorporated in SS; some fragments of blk, basalt, hard, some blk, soft, shale, grnd up basalt?

SH: It brn, gy-brn, sbblk, sbplty, occ It gy, sly, frm to sft, calc ip

SS: wh, clr, trns, f-mg, occ cse grained, clr & op grains, very calc, calcite cmtd but drills up into loose crystals and grains. NFSOC

SH: It brn, gy-brn, sbblk, sbplty, occ It gy, sly, frm to sft, calc ip

SS: clr, trns, wh, f-cse grained, tr cse grains, clr & op qtz, calcite cement, drls up into loose unconsolidated grains, NFSOC

